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L6	13	5 and 3	USPAT; DERWENT	OR	OFF	2005/04/26 16:36
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L10	5052	(707/3).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/26 17:11
L11	1751	(707/4).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/26 17:11

L12	4578	(707/10).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/26 17:11
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1 [Eliciting software process models with the E3 language](#)

Maria Letizia Jaccheri, Gian Pietro Picco, Patricia Lago

 October 1998 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 7 Issue 4

Full text available: pdf(1.48 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Software processes are complex entities that demand careful understanding and improvement as they determine the quality of the resulting product. A necessary step toward the improvement of an organization's process is a clear description of the entities involved and of their mutual relationships. Process model elicitation aims at constructing this description under the shape of a software process model. The model is constructed by gathering, from several sources, process ...

Keywords: associations, process model elicitation, software process modeling

2 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

3 [Special issue: AI in engineering](#)

D. Sriram, R. Joobhani

 January 1985 **ACM SIGART Bulletin**, Issue 91

Full text available: pdf(8.79 MB)


 Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

4

[Model-driven development of Web applications: the AutoWeb system](#)

Piero Fraternali, Paolo Paolini

October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4Full text available:  pdf(6.94 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

Keywords: HTML, WWW, application, development, intranet, modeling

5 Principled design of the modern Web architecture

Roy T. Fielding, Richard N. Taylor


May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2Full text available:  pdf(335.47 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia application. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this article we introduce the Representational State Transfer (REST) arc ...

Keywords: Network-based applications, REST, World Wide Web

6 Object orientation in multidatabase systems

Evaggelia Pitoura, Omran Bukhres, Ahmed Elmagarmid


June 1995 **ACM Computing Surveys (CSUR)**, Volume 27 Issue 2Full text available:  pdf(4.85 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A multidatabase system (MDBS) is a confederation of preexisting distributed, heterogeneous, and autonomous database systems. There has been a recent proliferation of research suggesting the application of object-oriented techniques to facilitate the complex task of designing and implementing MDBSs. Although this approach seems promising, the lack of a general framework impedes any further development. The goal of this paper is to provide a concrete analysis and categorization of the various ...

Keywords: distributed objects, federated databases, integration, multidatabases, views

7 Modeling Web application architectures with UML

Jim Conallen

October 1999 **Communications of the ACM**, Volume 42 Issue 10Full text available:  pdf(146.85 KB) html(39.12 KB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 Putting integrated information in context: superimposing conceptual models with SPARCE

Sudarshan Murthy, David Maier, Lois Delcambre, Shawn Bowers

January 2004 **Proceedings of the first Asian-Pacific conference on Conceptual modelling - Volume 31**

Full text available:  pdf(510.13 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)


A person working with diverse information sources—with possibly different formats and information models—may recognize and wish to express conceptual structures that are not explicitly present in those sources. Rather than replicate the portions of interest and recast them into a single, combined data source, we leave *base information* where it is and *superimpose* a conceptual model that is appropriate to the task at hand. This superimposed model can be distinct from the ...

Keywords: SPARCE, conceptual modelling, context, excerpts, software architecture, superimposed information

9 Version models for software configuration management

Reidar Conradi, Bernhard Westfechtel

June 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 2

Full text available:  pdf(483.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


After more than 20 years of research and practice in software configuration management (SCM), constructing consistent configurations of versioned software products still remains a challenge. This article focuses on the version models underlying both commercial systems and research prototypes. It provides an overview and classification of different versioning paradigms and defines and relates fundamental concepts such as revisions, variants, configurations, and changes. In particular, we foc ...

Keywords: changes, configuration rules, configurations, revisions, variants, versions

10 xlinkit: a consistency checking and smart link generation service

Christian Nentwich, Licia Capra, Wolfgang Emmerich, Anthony Finkelstein

May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2

Full text available:  pdf(463.26 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


xlinkit is a lightweight application service that provides rule-based link generation and checks the consistency of distributed Web content. It leverages standard Internet technologies, notably XML, XPath, and XLink. xlinkit can be used as part of a consistency management scheme or in applications that require smart link generation, including portal construction and management of large document repositories. In this article we show how consistency constraints can be expressed and checked. We des ...

Keywords: Consistency management, XML, automatic link generation, constraint checking

11 Principled design of the modern Web architecture

Roy T. Fielding, Richard N. Taylor

June 2000 **Proceedings of the 22nd international conference on Software engineering**

Full text available:  pdf(217.34 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia system. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this paper, we introduce the Representational State Tra ...

Keywords: WWW, software architectural style, software architecture

**12** An axiomatic model of dynamic schema evolution in objectbase systems

Randel J. Peters, M. Tamer Özsu

March 1997 **ACM Transactions on Database Systems (TODS)**, Volume 22 Issue 1Full text available: pdf(647.83 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** dynamic schema evolution, object database management systems**13** Special issue on persistent object systems: Orthogonally persistent object systems

Malcolm Atkinson, Ronald Morrison

July 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**,
Volume 4 Issue 3Full text available: pdf(5.02 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Persistent Application Systems (PASs) are of increasing social and economic importance. They have the potential to be long-lived, concurrently accessed, and consist of large bodies of data and programs. Typical examples of PASs are CAD/CAM systems, office automation, CASE tools, software engineering environments, and patient-care support systems in hospitals. Orthogonally persistent object systems are intended to provide improved support for the design, construction, maintenance, and operation o ...

Keywords: database programming languages, orthogonal persistence, persistent application systems, persistent programming languages**14** Tools and approaches for developing data-intensive Web applications: a survey

Piero Fraternali

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3Full text available: pdf(524.80 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characte ...

Keywords: HTML, Intranet, WWW, application, development**15** Understanding object-oriented: a unifying paradigm

Tim Korson, John D. McGregor

September 1990 **Communications of the ACM**, Volume 33 Issue 9Full text available: pdf(2.30 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The need to develop and maintain large complex software systems in a competitive and dynamic environment has driven interest in new approaches to software design and development. The problems with the classical waterfall model have been cataloged in almost every software engineering text [19,23]. In response, alternative models such as the spiral [2], and fountain [9] have been proposed. Problems with traditional development using the classical life cycle include no iteration, no ...

16 On the notion of inheritance

Antero Taivalsaari

September 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 3Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

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One of the most intriguing—and at the same time most problematic—notions in object-oriented programming is inheritance. Inheritance is commonly regarded as the feature that distinguishes object-oriented programming from other modern programming paradigms, but researchers rarely agree on its meaning and usage. Yet inheritance of often hailed as a solution to many problems hampering software development, and many of the alleged benefits of object-oriented programm ...

Keywords: delegation, incremental modification, inheritance, language constructs, object-oriented programming, programming languages

17 [Frameworks for component-based client/server computing](#)

Scott M. Lewandowski

March 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 1


Full text available:  [pdf\(243.81 KB\)](#)

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18 [Improving the aircraft design process using Web-based modeling and simulation](#)

John A. Reed, Gregory J. Follen, Abdollah A. Afjeh

January 2000 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 10 Issue 1

Full text available:  [pdf\(1.06 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Designing and developing new aircraft systems is time-consuming and expensive. Computational simulation is a promising means for reducing design cycle times, but requires a flexible software environment capable of integrating advanced multidisciplinary and multifidelity analysis methods, dynamically managing data across heterogeneous computing platforms, and distributing computationally complex tasks. Web-based simulation, with its emphasis on collaborative composition of simulation models, ...

Keywords: Java, Web-based simulation, aircraft design, object-oriented

19 [Streams, structures, spaces, scenarios, societies \(5s\): A formal model for digital libraries](#)

Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp

April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2

Full text available:  [pdf\(316.85 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Digital libraries (DLs) are complex information systems and therefore demand formal foundations lest development efforts diverge and interoperability suffers. In this article, we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, and Societies (5S), which allow us to define digital libraries rigorously and usefully. Streams are sequences of arbitrary items used to describe both static and dynamic (e.g., video) content. Structures can be viewed as labeled directed gra ...

Keywords: applications., definitions, foundations, taxonomy

20 [CS1 using Java language features gently](#)

Elliot Koffman, Ursula Wolz

June 1999 **ACM SIGCSE Bulletin , Proceedings of the 4th annual SIGCSE/SIGCUE ITICSE conference on Innovation and technology in computer science education**, Volume 31 Issue 3

Full text available:  [pdf\(440.67 KB\)](#)

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Teaching a new programming language in CS1 requires the instructor to make several important decisions regarding sequencing of topics. In teaching Java, the basic decisions center around how to perform input and output, when to teach the AWT (Abstract Window Toolkit) and threads, whether to begin with applets or applications, and how much detail about object-oriented programming and Java language features is required in the beginning. This paper describes a "language features gently" approach to ...

Keywords: CS1, Java, graphics, interactivity, programming, user interface

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